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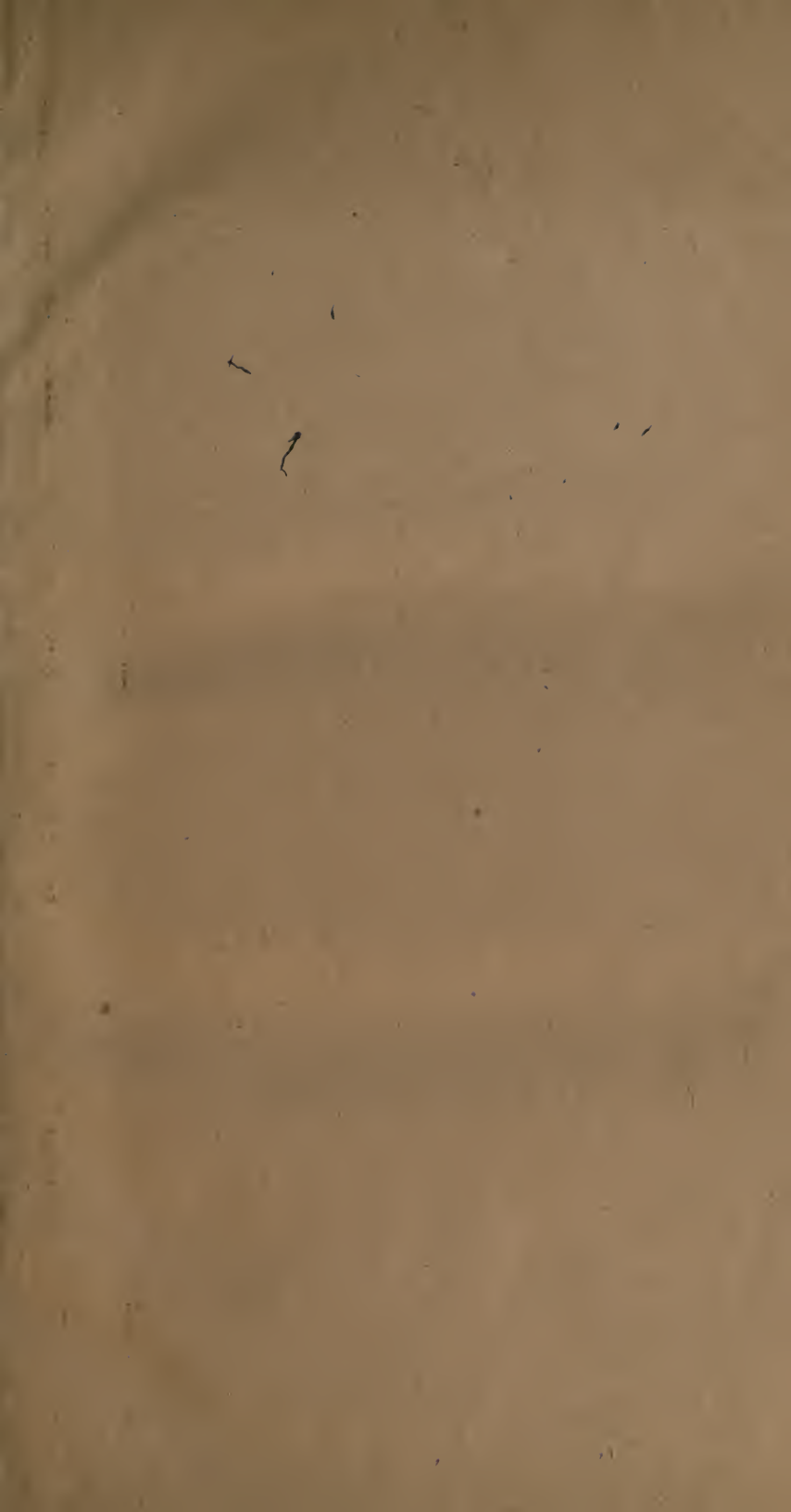
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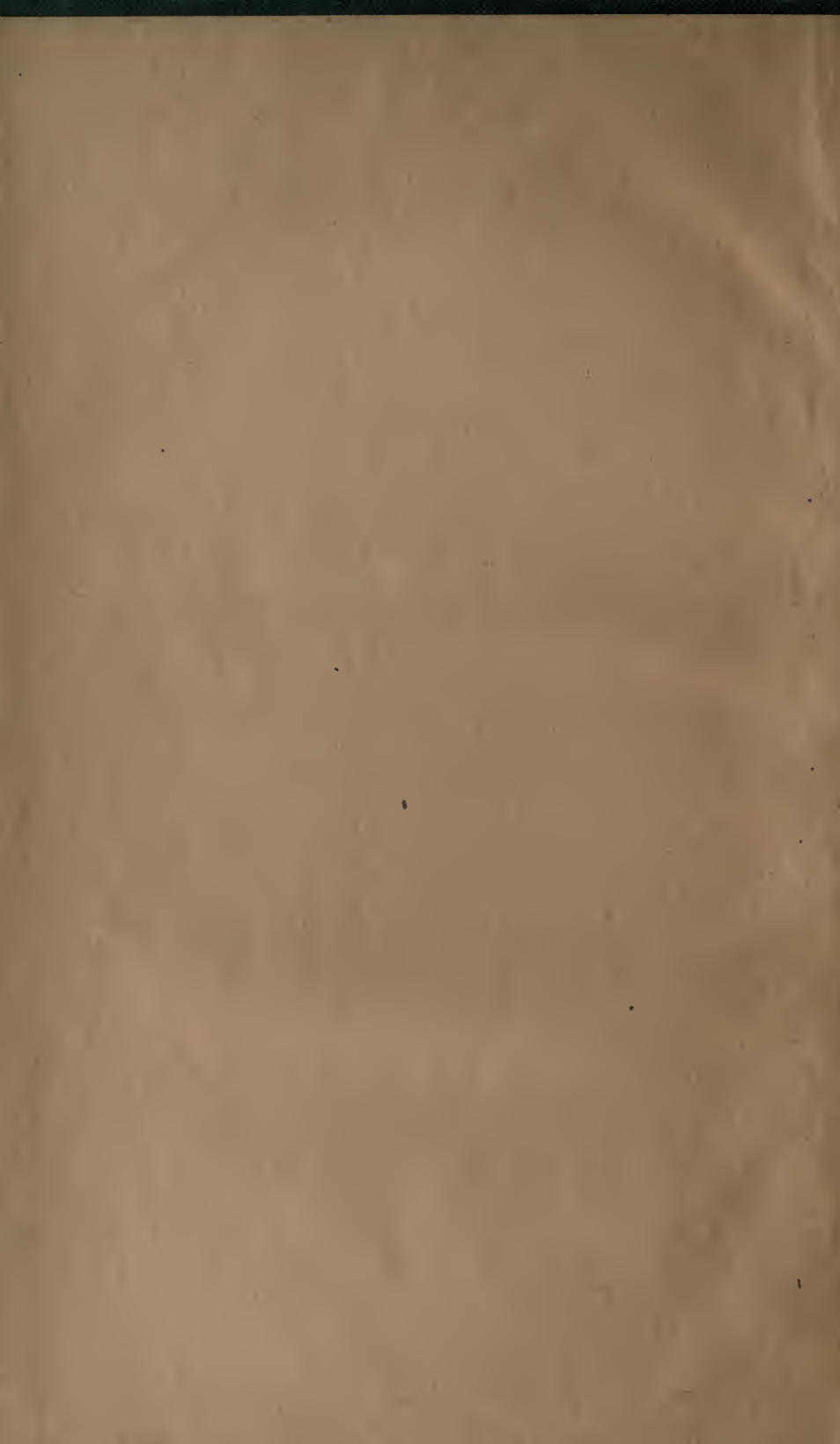
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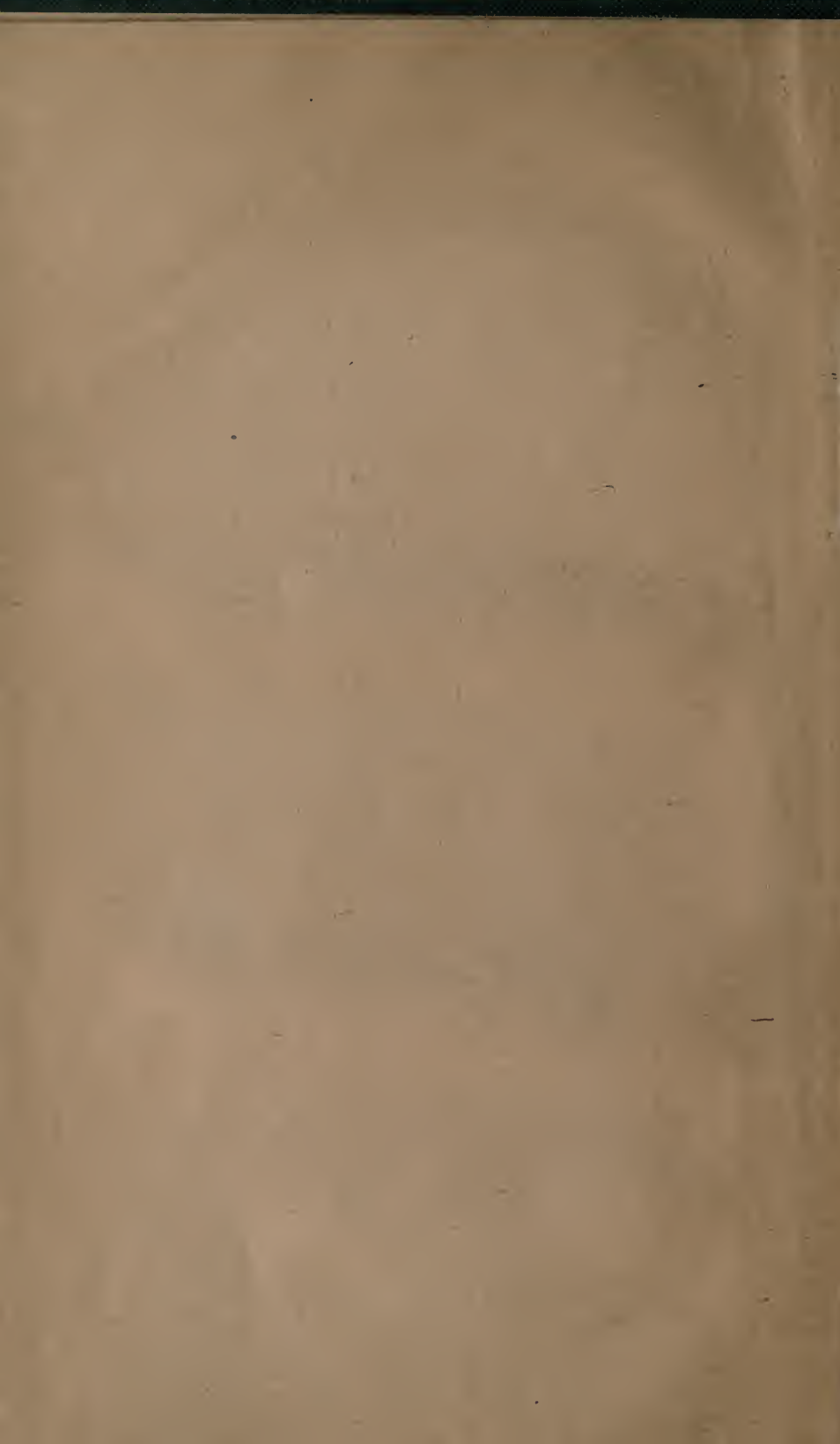
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Water-Supply and Irrigation Paper No. 119

Series P, Hydrographic Progress Reports, 28

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

CHARLES D. WALCOTT, DIRECTOR

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INDEX

TO THE

HYDROGRAPHIC PROGRESS REPORTS

OF THE

UNITED STATES GEOLOGICAL SURVEY

1888 to 1903

BY

JOHN C. HOYT AND B. D. WOOD



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LETTER OF TRANSMITTAL.

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DEPARTMENT OF THE INTERIOR,  
UNITED STATES GEOLOGICAL SURVEY,  
*Washington, D. C., January 16, 1905.*

SIR: I transmit herewith the manuscript for an index to the hydrographic progress reports of the United States Geological Survey issued during 1888 to 1903, inclusive. This manuscript has been prepared by John C. Hoyt and B. D. Wood, and I request that it be published as a water-supply and irrigation paper.

Very respectfully,

F. H. NEWELL,  
*Chief Engineer.*

Hon. CHARLES D. WALCOTT,  
*Director United States Geological Survey.*





# INDEX TO THE HYDROGRAPHIC PROGRESS REPORTS OF THE UNITED STATES GEOLOGICAL SURVEY, 1888 TO 1903.

By JOHN C. HOYT and B. D. WOOD.

## INTRODUCTION.

A systematic study of the surface waters of the United States was started by the hydrographic branch of the United States Geological Survey in 1888. A large part of this work has consisted of the measurement of the volume of flow and of the study of conditions affecting it. For each calendar year there has been prepared a Report of Progress of Stream Measurements, embodying the data collected during that year, which has been published either as a part of the annual report of the Director, as a bulletin, or as a water-supply and irrigation paper, as shown by the following list:

- 1888. Tenth Annual Report, Part II.
- 1889. Eleventh Annual Report, Part II.
- 1890. Twelfth Annual Report, Part II.
- 1891. Thirteenth Annual Report, Part III.
- 1892. Fourteenth Annual Report, Part II.
- 1893. Bulletin No. 131.
- 1894. Bulletin No. 131, and Sixteenth Annual Report, Part II.
- 1895. Bulletin No. 140, and Seventeenth Annual Report, Part II.
- 1896. Water-Supply Paper No. 11; Eighteenth Annual Report, Part IV.
- 1897. Water-Supply Papers Nos. 15 and 16; Nineteenth Annual Report, Part IV.
- 1898. Water-Supply Papers Nos. 27 and 28; Twentieth Annual Report, Part IV.
- 1899. Water-Supply Papers Nos. 35 to 39, inclusive; Twenty-first Annual Report, Part IV.
- 1900. Water-Supply Papers Nos. 47 to 52, inclusive; Twenty-second Annual Report, Part IV.
- 1901. Water-Supply Papers Nos. 65, 66, and 75.
- 1902. Water-Supply Papers Nos. 82 to 85, inclusive.
- 1903. Water-Supply Papers Nos. 97 to 100, inclusive.

As the hydrographic work in most localities has continued during several years, the results of the investigations at any one point are scattered through a number of publications, and the only guide to these data has been the individual indexes. With the growing interest in the commercial development of the hydrographic resources of



the country the demand for these data collected by the Geological Survey has rapidly increased, and in order to aid those wishing to use them this index has been prepared. In its preparation each publication of the foregoing list was carefully reviewed, the data were classified, and entries were made under both names of rivers and names of places.

As the work of the hydrographic branch increased it became necessary to publish a special series of reports to contain the data collected, and the series of Water-Supply and Irrigation Papers was therefore begun. The papers of this series have been classified as follows:

- (I) Irrigation.
- (J) Water storage.
- (K) Pumping water.
- (L) Quality of water.
- (M) General hydrographic investigations.
- (N) Water powers.
- (O) Underground waters.
- (P) Hydrographic progress reports.

A certain number of these publications, as of all publications of the Geological Survey, are published for free distribution by the Survey, and a certain number are deposited with the Superintendent of Public Documents, Washington, D. C., from whom they may be purchased at a nominal price. Other copies are allotted to the various Congressmen for distribution. As the edition of most of the publications is limited, the supply is soon exhausted. Those who are interested, however, may be able to find copies on file in the public libraries of most of the large cities, or in the libraries of engineering societies.



PUBLICATIONS OF UNITED STATES GEOLOGICAL SURVEY RELATING TO HYDRO-  
GRAPHIC SUBJECTS.

To April 1, 1905.

SERIES I—IrrIGATION.

- WS 2. Irrigation near Phoenix, Ariz., by A. P. Davis. 1897. 98 pp., 31 pls. and maps.
- WS 5. Irrigation practice on the Great Plains, by E. B. Cowgill. 1897. 39 pp., 11 pls.
- WS 9. Irrigation near Greeley, Colo., by David Boyd. 1897. 90 pp., 21 pls.
- WS 10. Irrigation in Mesilla Valley, New Mexico, by F. C. Barker. 1898. 51 pp., 11 pls.
- WS 13. Irrigation systems in Texas, by W. F. Hutson. 1898. 68 pp., 10 pls.
- WS 17. Irrigation near Bakersfield, Cal., by C. E. Grunsky. 1898. 96 pp., 16 pls.
- WS 18. Irrigation near Fresno, Cal., by C. E. Grunsky. 1898. 94 pp., 14 pls.
- WS 19. Irrigation near Merced, Cal., by C. E. Grunsky. 1899. 59 pp., 11 pls.
- WS 23. Water-right problems of the Bighorn Mountains, by Elwood Mead. 1899. 62 pp., 7 pls.
- WS 32. Water resources of Puerto Rico, by H. M. Wilson. 1899. 48 pp., 17 pls. and maps.
- WS 43. Conveyance of water in irrigation canals, flumes, and pipes, by Samuel Fortier. 1901. 86 pp., 15 pls.
- WS 70. Geology and water resources of the Patrick and Goshen Hole quadrangles in eastern Wyoming and western Nebraska, by G. I. Adams. 1902. 50 pp., 11 pls.
- WS 71. Irrigation systems of Texas, by T. U. Taylor. 1902. 137 pp., 9 pls.
- WS 74. Water resources of the State of Colorado, by A. L. Fellows. 1902. 151 pp., 14 pls.
- WS 87. Irrigation in India (second edition), by H. M. Wilson. 1903. 238 pp., 27 pls.
- WS 93. Proceedings of first conference of engineers of the reclamation service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. 361 pp.
- WS 117. The lignite of North Dakota and its relation to irrigation, by F. A. Wilder. 1905. 59 pp., 8 pls.

The following papers also relate especially to irrigation: Irrigation in India, by H. M. Wilson, in Twelfth Annual, Pt. II; two papers on irrigation engineering, by H. M. Wilson, in Thirteenth Annual, Pt. III.

SERIES J—WATER STORAGE.

- WS 33. Storage of water on Gila River, Arizona, by J. B. Lippincott. 1900. 98 pp., 33 pls.
- WS 40. The Austin dam, by T. U. Taylor. 1900. 51 pp., 16 pls.

- WS 45. Water storage on Cache Creek, California, by A. E. Chandler. 1901. 48 pp., 10 pls.
- WS 46. Physical characteristics of Kern River, California, by F. H. Olmsted, and Reconnaissance of Yuba River, California, by Marsden Manson. 1901. 57 pp., 8 pls.
- WS 58. Storage of water on Kings River, California, by J. B. Lippincott. 1902. 100 pp., 32 pls.
- WS 68. Water storage in the Truckee basin, California-Nevada, by L. H. Taylor. 1902. 90 pp., 8 pls.
- WS 73. Water storage on Salt River, Arizona, by A. P. Davis. 1902. 54 pp., 25 pls.
- WS 86. Storage reservoirs on Stony Creek, California, by Burt Cole. 1903. 62 pp., 16 pls.
- WS 89. Water resources of the Salinas Valley, California, by Homer Hamlin. 1904. 91 pp., 12 pls.
- WS 93. Proceedings of first conference of engineers of the reclamation service, with accompanying papers, compiled by F. H. Newell, chief engineer. 1904. 361 pp.
- WS 116. Water problems of Santa Barbara, California, by J. B. Lippincott. 1905. 99 pp., 8 pls.

The following paper also should be noted under this heading: Reservoirs for irrigation, by J. D. Schuyler, in Eighteenth Annual, Pt. IV.

#### SERIES K—PUMPING WATER.

- WS 1. Pumping water for irrigation, by H. M. Wilson. 1896. 57 pp., 9 pls.
- WS 8. Windmills for irrigation, by E. C. Murphy. 1897. 49 pp., 8 pls.
- WS 14. New tests of certain pumps and water lifts used in irrigation, by O. P. Hood. 1898. 91 pp., 1 pl.
- WS 20. Experiments with windmills, by T. O. Perry, 1899. 97 pp., 12 pls.
- WS 29. Wells and windmills in Nebraska, by E. H. Barbour. 1899. 85 pp., 27 pls.
- WS 41. The windmill; its efficiency and economic use, Pt. I, by E. C. Murphy. 1901. 72 pp., 14 pls.
- WS 42. The windmill; its efficiency and economic use, Pt. II (continuation of No. 41), by, E. C. Murphy. 1901. 73-147 pp., 15-16 pls.
- WS 91. The natural features and economic development of the Sandusky, Maumee, Muskingum, and Miami drainage areas in Ohio, by B. H. Flynn and M. S. Flynn. 1904. 130 pp.
- WS 117. The lignite of North Dakota and its relation to irrigation, by F. A. Wilder. 1905. 59 pp., 8 pls.

#### SERIES L—QUALITY OF WATER.

- WS 3. Sewage irrigation, by G. W. Rafter. 1897. 100 pp., 4 pls.
- WS 22. Sewage irrigation, Pt. II, by G. W. Rafter. 1899. 100 pp., 7 pls.
- WS 72. Sewage pollution in the metropolitan area near New York City and its effect on inland water resources, by M. O. Leighton. 1902. 75 pp., 8 pls.
- WS 76. Observations on the flow of rivers in the vicinity of New York City, by H. A. Pressey. 1903. 108 pp., 13 pls.
- WS 79. Normal and polluted waters in northeastern United States, by M. O. Leighton. 1903. 192 pp.
- WS 103. A review of the laws forbidding pollution of inland waters in the United States, by E. B. Goodell. 1904. 120 pp.

- WS 108. Quality of water in the Susquehanna River drainage basin, by M. O. Leighton, with an introductory chapter on physiographic features, by G. B. Hollister. 1904. 76 pp., 4 pls.
- WS 113. The disposal of strawboard and oil-well wastes, by R. L. Sackett and Isaiah Bowman. 1905. 52 pp., 4 pls.

## SERIES M—GENERAL HYDROGRAPHIC INVESTIGATIONS.

- WS 56. Methods of stream measurement. 1901. 51 pp., 12 pls.
- WS 64. Accuracy of stream measurements, by E. C. Murphy. 1902. 99 pp., 4 pls.
- WS 76. Observations on the flow of rivers in the vicinity of New York City, by H. A. Pressey. 1903. 108 pp., 13 pls.
- WS 80. The relation of rainfall to run-off, by G. W. Rafter. 1903. 104 pp.
- WS 81. California hydrography, by J. B. Lippincott. 1903. 488 pp., 1 pl.
- WS 88. The Passaic flood of 1902, by G. B. Hollister and M. O. Leighton. 1903. 56 pp., 15 pls.
- WS 91. The natural features and economic development of Sandusky, Maumee, Muskingum, and Miami drainage areas in Ohio, by B. H. Flynn and M. S. Flynn. 1904. 130 pp.
- WS 92. The Passaic flood of 1903, by M. O. Leighton. 1904. 48 pp., 7 pls.
- WS 94. Hydrographic manual of the United States Geological Survey, prepared by E. C. Murphy, J. C. Hoyt, and G. B. Hollister. 1904. 76 pp., 3 pls.
- WS 95. Accuracy of stream measurements (second enlarged edition), by E. C. Murphy. 1904. 169 pp., 6 pls.
- WS 96. Destructive floods in the United States in 1903, by E. C. Murphy. 1904. 81 pp., 13 pls.
- WS 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 pp., 4 pls.
- WS 109. Hydrography of the Susquehanna River drainage basin, by J. C. Hoyt and R. H. Anderson. 1905. 215 pp., 29 pls.

## SERIES N—WATER POWER.

- WS 24. Water resources of the State of New York, Pt. I, by G. W. Rafter. 1899. 92 pp., 13 pls.
- WS 25. Water resources of the State of New York, Pt. II, by G. W. Rafter. 1899. 100-200 pp., 12 pls.
- WS 44. Profiles of rivers in the United States, by Henry Gannett. 1901. 100 pp., 11 pls.
- WS 62. Hydrography of the Southern Appalachian Mountain region, Pt. I, by H. A. Pressey. 1902. 95 pp., 25 pls.
- WS 63. Hydrography of the Southern Appalachian Mountain region, Pt. II, by H. A. Pressey. 1902. 96-190 pp., 26-44 pls.
- WS 69. Water powers of the State of Maine, by H. A. Pressey. 1902. 124 pp., 14 pls.
- WS 105. The water powers of Texas, by T. M. Taylor. 1904. 116 pp., 17 pls.
- WS 107. Water powers of Alabama, with an appendix on stream measurements in Mississippi, by B. M. Hall. 1904. 253 pp., 9 pls.
- WS 109. Hydrography of the Susquehanna River drainage basin, by J. C. Hoyt and R. H. Anderson. 1905. 215 pp., 29 pls.
- WS 115. River surveys and profiles made during 1903, arranged by W. C. Hall and J. C. Hoyt. 1905. 115 pp., 4 pls.



## SERIES O—UNDERGROUND WATERS.

- WS 4. A reconnaissance in southeastern Washington, by I. C. Russell. 1897. 96 pp., 7 pls.
- WS 6. Underground waters of southwestern Kansas, by Erasmus Haworth. 1897. 65 pp., 12 pls.
- WS 7. Seepage waters of northern Utah, by Samuel Fortier. 1897. 50 pp., 3 pls.
- WS 12. Underground waters of a portion of southeastern Nebraska, by N. H. Darton. 1898. 56 pp., 21 pls.
- WS 21. Wells of northern Indiana, by Frank Leverett. 1899. 82 pp., 2 pls.
- WS 26. Wells of southern Indiana (continuation of No. 21), by Frank Leverett. 1899. 64 pp.
- WS 30. Water resources of the Lower Peninsula of Michigan, by A. C. Lane. 1899. 97 pp., 7 pls.
- WS 31. Lower Michigan mineral waters; a study into the connection between their chemical composition and mode of occurrence, by A. C. Lane. 1899. 97 pp., 4 pls.
- WS 34. Geology and water resources of a portion of southeastern South Dakota, by J. E. Todd. 1900. 34 pp., 19 pls.
- WS 53. Geology and water resources of Nez Perces County, Idaho, Pt. I, by I. C. Russell. 1901. 86 pp., 10 pls.
- WS 54. Geology and water resources of Nez Perces County, Idaho, Pt. II, by I. C. Russell. 1901. 87-141 pp.
- WS 55. Geology and water resources of a portion of Yakima County, Wash., by G. O. Smith. 1901. 68 pp., 7 pls.
- WS 57. Preliminary list of deep borings in the United States, Pt. I (Alabama-Montana), by N. H. Darton. 1902. 60 pp.
- WS 59. Development and application of water near San Bernardino, Colton, and Riverside, Cal., Pt. I, by J. P. Lippincott. 1902. 95 pp., 11 pls.
- WS 60. Development and application of water near San Bernardino, Colton, and Riverside, Cal., Pt. II, by J. B. Lippincott. 1902. 96-140 pp.
- WS 61. Preliminary list of deep borings in the United States, Pt. II (Nebraska-Wyoming), by N. H. Darton. 1902. 67 pp.
- WS 67. The motions of underground waters, by C. S. Slichter. 1902. 106 pp., 8 pls.
- B 199. Geology and water resources of the Snake River Plains of Idaho, by I. C. Russell. 1902. 192 pp., 25 pls.
- WS 77. The water resources of Molokai, Hawaiian Islands, by Waldemar Lindgren. 1903. 62 pp., 4 pls.
- WS 78. Preliminary report on artesian basins in southwestern Idaho and southeastern Oregon, by I. C. Russell. 1903. 53 pp., 2 pls.
- PP 17. Preliminary report on the geology and water resources of Nebraska west of the one hundred and third meridian, by N. H. Darton. 1903. 69 pp., 43 pls.
- WS 90. Geology and water resources of part of the lower James River Valley, South Dakota, by J. E. Todd and C. M. Hall. 1904. 45 pp., 23 pls.
- WS 101. Underground waters of southern Louisiana, by G. D. Harris; with discussions of their uses for water supplies and for rice irrigation, by M. L. Fuller. 1904. 98 pp., 11 pls.
- WS 102. Contributions to the hydrology of eastern United States, 1903; M. L. Fuller, geologist in charge. 1904. 522 pp.
- WS 104. The underground waters of Gila Valley, Arizona, by Willis T. Lee. 1904. 71 pp., 5 pls.
- WS 106. Water resources of the Philadelphia district, by Florence Bascom. 1904. 75 pp., 4 pls.

- WS 110. Contributions to the hydrology of eastern United States, 1904; M. L. Fuller, geologist in charge. 1905. 211 pp., 5 pls.
- PP 32. Geology and underground water resources of the central Great Plains, by N. H. Darton. 1905. 433 pp., 72 pls.
- WS 111. Preliminary report on the underground waters of Washington, by Henry Landes. 1905. 85 pp., 1 pl.
- WS 112. Underflow test in the drainage basin of Los Angeles River, by Homer Hamlin. 1905. 55 pp., 7 pls.
- WS 114. Underground water of eastern United States; M. L. Fuller, geologist in charge. 1905. 285 pp., 18 pls.
- WS 118. Geology and water resources of a portion of east central Washington, by F. C. Calkins. 1905. 96 pp., 4 pls.

The following papers also relate to this subject: Underground waters of Arkansas Valley in eastern Colorado, by G. K. Gilbert, in Seventeenth Annual, Pt. II; Preliminary report on artesian waters of a portion of the Dakotas, by N. H. Darton, in Seventeenth Annual, Pt. II; Water resources of Illinois, by Frank Leverett, in Seventeenth Annual, Pt. II; Water resources of Indiana and Ohio, by Frank Leverett, in Eighteenth Annual, Pt. IV; New developments in well boring and irrigation in eastern South Dakota, by N. H. Darton, in Eighteenth Annual, Pt. IV; Rock waters of Ohio, by Edward Orton, in Nineteenth Annual, Pt. IV; Artesian well prospects in the Atlantic Coastal Plain region, by N. H. Darton, Bulletin No. 138.

#### SERIES P—HYDROGRAPHIC PROGRESS REPORTS.

Progress reports may be found in the following publications:

For 1888-89, Tenth Annual Report, Pt. III.

1889-90, Eleventh Annual Report, Pt. II.

1890-91, Twelfth Annual Report, Pt. II.

1891-92, Thirteenth Annual Report, Pt. III.

1893-94, Bulletin No. 131.

1895, Bulletin No. 140.

1896, Eighteenth Annual Report, Pt. IV; Water-Supply Paper No. 11.

1897, Nineteenth Annual Report, Pt. IV; Water-Supply Papers Nos. 15 and 16.

1898, Twentieth Annual Report, Pt. IV; Water-Supply Papers Nos. 27 and 28.

1899, Twenty-first Annual Report, Pt. IV; Water-Supply Papers Nos. 35 to 39.

1900, Twenty-second Annual Report, Pt. IV; Water-Supply Papers Nos. 47 to 52.

1901, Water-Supply Papers Nos. 65, 66, and 75.

1902, Water-Supply Papers Nos. 82 to 85.

1903, Water-Supply Papers Nos. 97 to 100.



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## Arkansas River, East Fork, near—

## Leadville, Colo.:

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gage heights ..... **WS** 99, p 311

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## Arkansas River, Lake Fork, near—

## Arkansas Junction, Colo.:

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## Leadville, Colo.:

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## Arkansas River, Tennessee Fork, near—

## Leadville, Colo.:

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## Arkansas Valley, Colo.:

## irrigation system of the Great

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## Arkins, Colo.

## Big Thompson Creek at:

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**Bull** 140, pp 110-111; **WS** 15, p 94;

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**WS** 15, p 94; 27, p 86; 37, p 233; 49,

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**WS** 11, p 56; 15, p 94; 27, p 83; 37,

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## Handy ditch near—Continued.

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## Arlington, Nebr.

## Elkhorn River near:

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50, p 309; 66, p 40; 84, p 51; 99, p 140.

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**Bull** 131, p 91; **WS** 27, p

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22, iv, p 331; **WS** 75, p 140

rating tables ..... **WS** 39, p 449;

84, p 52; 99, p 142

## Arlington, Mo.

## Gasconade River near:

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## Little Piney Creek near:

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## Arnold, Nebr.

## South Loup River near:

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## Arnolds Creek in—

## James River basin, Va.:

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## Fort Fairfield, Me.:

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## Caldwell, Ga.:

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## Arroya flume, below Lake Avalon, Tex.:

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## Arroyo Seco, Cal.:

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## near Piney, Cal.:

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## near Pasadena, Cal.:

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## near Soledad, Cal.:

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## Artesian wells:

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## Asbury, N. J.

## Musconetcong River near:

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## Ash Canyon Creek in—

## Carson River basin:

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## Ash Creek, Cal., near—

## Olancho:

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## Ash Creek, Nebr.:

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## Ash Creek and forks, Nebr.

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## Ashfield, Mont.

## Beaver Creek near:

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## Ashland, Va.

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## Asheville, Ala.

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## Asheville, N. C.

## French Broad River near:

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**Bull** 140, p 80; **WS** 15, p 60; 27, p

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## French Broad River near—Continued.

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## Ashley Creek canals, Utah:

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## in Yakima County, Wash.:

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## Middle Oconee River near:

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## Middle Oconee River near—Continued.

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## Elkhorn River near:

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## Atlanta, Ga.

## Peachtree Creek near:

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## Auburn, Cal.

## North Fork of American River near:

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## Auburn, Wyo.

## Stump Creek above:

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## Augusta Canal near:

discharge..... **Ann** 19, iv, p 227

## Savannah River near:

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## Warwick millrace at:

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## Augusta, Me.

## Cobbosseecontee River near:

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discharge, monthly..... **Ann** 21, iv, p 54;

22, iv, pp 58-59; **WS** 75, p 21

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## Augusta, Mont.

## Smith Creek near:

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## Sun River near:

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## Augusta Canal near—

## Augusta, Ga.:

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## Auraria, Ga.

## Etowah River near:

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## Au Sable River near—

## Bamfield, Mich.:

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## Au Sable River basin:

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## Sweetwater Creek near:

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## Barton Springs near:

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## Axial River near:

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## Milk Creek near:

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## canals at:

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## at tunnel:

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## San Gabriel River in:

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## James River basin:

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## Potomac River basin:

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## James River basin:

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## Piegan, Mont.:

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## Sandy Mush Creek at:

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## Powder River near:

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## Parksville, Tenn.:

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## Kern River near:

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## Fairmount, Ga.:

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## Burnsville, N. C.:

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## Seneca River near:

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## Housatonic River near:

discharge..... **WS** 65, p 90

## Bisbee, Ariz.

rainfall data ..... Ann 12, ii, p 307

## Bishop, Cal.

## Big Pine and Owens River Canal near:

description..... **WS** 100, pp 218-219discharge..... **WS** 100, p 219gage heights..... **WS** 100, p 219

## Birch Creek near:

discharge..... **WS** 100, p 225

## Bishop Creek near:

description..... **WS** 100, pp 214-215discharge..... **WS** 100, p 215gage heights..... **WS** 100, p 215

## Bishop Creek Canal near:

description ..... **WS** 100, pp 210-211discharge..... **WS** 100, p 211gage heights..... **WS** 100, p 211

## canals and ditches near:

discharge..... **WS** 100, p 225

## Collins (A. O.) canal near:

description ..... **WS** 100, pp 216-217discharge..... **WS** 100, p 217gage heights..... **WS** 100, p 217



## Blackhawk, S. Dak.—Continued.

## Box Elder Creek near—Continued.

discharge..... **WS** 99, p 50  
 gage heights..... **WS** 99, p 50

## Black Hills—

southern half of:  
 water resources.... **Ann** 21, iv, pp 489-599

## Black Lake outlet near—

## Sova, Mich:

discharge, low water..... **WS** 83, p 297

## Black Mountain Station, N. C.

## Flat Creek near:

discharge..... **WS** 49, p 212

## Black River, Ala.

## near Cordova:

discharge, monthly..... **WS** 83, p 158

## Black River, Mich.

## above Black Lake:

discharge, low-water..... **WS** 83, p 297

## near Black River:

discharge, low-water..... **WS** 83, p 296

## Black River, N. Y.

## below Black River:

description..... **Ann** 18, iv, p 468;  
 21, iv, p 182; **WS** 65, p 105

## near Carthage:

discharge, flood..... **WS** 65, p 105

## near Felts Mills:

description..... **WS** 82, pp 62-63;  
 97, pp 363-364

discharge, daily..... **WS** 82, p 63

discharge, monthly..... **WS** 82, p 64

## near Forestville:

discharge, flood..... **WS** 65, p 105

## near Lyons Falls:

discharge, flood..... **WS** 65, p 105

## near Ontario paper mills:

discharge, flood..... **WS** 65, p 105

## near Watertown (at Huntingtonville dam):

description..... **WS** 36, pp 191-192;  
 49, pp 236-237; 65, pp 102-103

discharge..... **WS** 47, p 39; 49,  
 p 237; 65, p 103

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 237-239; 65, p 104

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## Black River, Ohio, near—

## Elyria:

description..... **WS** 97, pp 420-421

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discharge, monthly..... **WS** 97, p 422

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## Black River, Wis., near—

## Melrose:

description..... **WS** 83, p 167; 98, p 183

discharge..... **WS** 83, p 167; 98, p 184

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## Black River drainage basin, N. Y.

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## Black River drainage basin, Wis.

description..... **WS** 83, p 167; 98, p 183

## Black River Canal.

## Forestport feeder of:

discharge..... **WS** 65, p 143

## Black Rock, Cal.

## Clear Creek at:

discharge..... **WS** 100, p 225

## Gooddale Creek at:

discharge..... **WS** 100, p 225

## Blackrock Harbor.

## Niagara River at:

discharge..... **Ann** 20, iv, p 224

## Blacksburg, S. C.

## Broad River at:

discharge..... **WS** 27, p 45

## Blacksburg, Va.

rainfall data..... **Ann** 20, iv, pp 132,133, 134

## Blacksmith Fork, Idaho:

discharge..... **Ann** 18, iv, p 315

## Blacksmith Fork, Utah, near—

## Hyrum.

description..... **WS** 51, p 412;  
 66, p 119; 85, p 84

discharge.. **WS** 51, p 412; 66, p 119; 85, p 85

discharge, monthly.... **Ann** 22, iv, p 409;  
**WS** 75, p 192; 85, p 86

gage heights..... **WS** 51, p 413;

66, p 120; 85, p 85

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 66, p 176; 85, p 86

## Black Springs Creek near—

## Ora, Idaho:

discharge..... **WS** 85, p 216

## Blackstone canal near—

## Berkeley, R. I.:

discharge..... **WS** 65, p 28

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## Blackstone River near—

## Berkeley, R. I.:

description..... **WS** 65, p 27; 82, p 56

discharge..... **WS** 65, p 28; 82, p 56

gage heights..... **WS** 65, p 28; 82, p 57

## Blacktail Deer Creek at—

## Rondexter, Mont.:

discharge..... **Ann** 11, il, p 107

## Black Warrior River, Ala.

description.... **Ann** 19, iv, p 250; 21, iv, p 152

## near Cordova:

description..... **WS** 48, p 171;  
 83, p 156; 98, p 161

discharge..... **WS** 48, p 171;

83, p 157; 98, p 162

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## near Tuscaloosa:

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**WS** 15, p 57; 27, p 48; 36,

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p 156; 65, p 284; 98, p 160



## Black Warrior River, Ala.—Continued.

## near Tuscaloosa—Continued.

discharge, monthly .... Ann 18, iv, p 108;  
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21, iv, p 153; 22, iv, p 207;  
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gage heights.... WS 11, pp 37-40; 15, p 57;  
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## Black Warrior River basin:

## hydrographic data, additional

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## Black Warrior River, Locust Fork, near—

## Palos, Ala.:

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## Black Warrior River, Mulberry Fork near—

## Cordova, Ala.:

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## Blackwell Springs, N. C.

## Turkey Creek near:

discharge ..... WS 49, p 212

## Blackwood Creek near—

## Lake Tahoe:

discharge ..... WS 100, p 232

## Blackwood Spring near—

## Calhoun, Ga.:

discharge ..... WS 36, p 148

## Blair's ranch, S. Dak.

## Spring Creek at:

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## Blairsville, Ga.

## Butternut Creek near:

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## Notteley River near:

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## Blake, Utah.

## Green River near:

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19, iv, p 396; Bull 131, pp 48, 92;

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19, iv, p 398; 20, iv, pp

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## Blake, Utah—Continued.

## Green River near—Continued.

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19, iv, p 398; 20, iv, p 388; 21, iv, p 305

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## Blanchard River near—

## Ottawa, Ohio:

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## Blanco River, Tex.

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## near San Marcos:

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## Blevins Creek near—

## Cranberry, N. C.:

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## Bliss, Idaho.

## Malade River near:

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discharge ..... WS 38, p 355

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## Bloomington Creek in—

## Interior drainage basin, Idaho:

discharge ..... WS 100, p 224

## Bloomsbury, N. J.

## Musconetcong River near:

description ..... WS 97, p 254

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## Blue Canyon Creek in—

## Santa Ynez River basin, Cal.:

discharge ..... WS 100, p 346

## Blue Creek, Ala., near—

## Susanna:

discharge ..... WS 49, p 210

## Blue Creek, Nebr.:

description ..... Bull 140, p 101

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## near head of Graff ditch:

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## Blue Creek, Okla.:

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## Bluefield, W. Va.

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## Blue Lakes, Idaho.

## Blue Lakes Creek near:

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## Blueridge, Ga.

## Charley Creek near:

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## Toccoa River near:

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## Blueridge, Ga.—Continued.

## Toccoa River near—Continued.

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## Weavers Creek near:

discharge .....	<b>WS</b> 49, p 218
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## Blue River, Ariz.

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## near Alma, Ariz.:

discharge.....	Ann 21, iv, p 339
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## Blue River, Colo., near—

## Kremmling:

discharge.....	<b>WS</b> 66, p 98
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description....	Ann 19, iv, p 347; 21, iv, p 226
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## near Beatrice, Nebr.:

discharge.....	Ann 20, iv, p 298
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## near Crete, Nebr.:

discharge.....	<b>WS</b> 84, p 112
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discharge.....	Ann 20, iv, p 298
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## near Manhattan, Kans.:

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p 46; 84, pp 97-98; 99, p 211

discharge.....	Ann 18, iv, p 216; Bull
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252; 50, p 317; 66, p 46; 84, p 98; 99, p 212

discharge, monthly....	Ann 18, iv, p 218;
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21, iv, p 227; 22, iv, p 337; **WS**

75, p 143; 84, p 99; 99, p 213

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21, iv, p 227; 22, iv, p 337

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39, p 449; 52, p 518; 66, p

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discharge .....	Ann 20, iv, p 298
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## near Seward, Nebr.:

discharge.....	Ann 20, iv, p 298;
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## near Wymore, Nebr.:

discharge.....	<b>WS</b> 84, p 112
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## Blue River basin:

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## Blue Spring at—

## Juliet, Fla.:

discharge.....	<b>WS</b> 27, p 45
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## Blue Springs, Nebr.

## Big Blue River near:

discharge.....	<b>WS</b> 50, p 310
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## Bluff City, Tenn.

## South Fork of Holston River at:

description.....	<b>WS</b> 48, p 182;
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discharge.....	<b>WS</b> 48, p 182;
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65, p 297; 83, p 227; 98, p 288

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83, p 228; 98, p 289

## Bluffton, Ohio.

rainfall data.....	<b>WS</b> 75, p 111
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## Boardman Creek, Nebr.

discharge .....	Ann 20, iv, p 298;
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**WS** 39, p 438

## Boardman River near—

## Kalkaskia, Mich.:

discharge.....	<b>WS</b> 97, p 439
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## Traverse City, Mich.:

description .....	<b>WS</b> 97, p 439
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## Boardtown Creek in—

## Coosawattee River basin:

discharge .....	<b>WS</b> 49, p 209
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## Board Tree Creek in—

## Etowah River basin, Ga.:

discharge.....	<b>WS</b> 49, p 208
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## Boca, Cal.

## Little Truckee River near:

discharge.....	Ann 11, ii, p 108;
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**WS** 51, p 405

discharge, monthly .....	Ann 13, iii, p 95
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## Pine station.

## Little Truckee River and flume near:

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## Prosser Creek near:

description ...	<b>WS</b> 85, p 122; 100, p 199-200
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discharge.....	<b>WS</b> 85, p 122
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13, iii, p 95

discharge, yearly.....	Ann 20, iv, p 59
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gage heights.....	<b>WS</b> 85, p 122; 100, p 200
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hydrograph .....	Ann 12, ii, p 324
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## Truckee River near:

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13, iii, p 95

discharge, yearly.....	Ann 20, iv, p 59
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hydrograph .....	Ann 12, ii, p 324
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## Bodie Creek ditches,

## in Nevada:

discharge .....	<b>WS</b> 100, p 240
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## Boelus, Nebr.

## Middle Loup River at:

discharge....	Ann 19, iv, p 335; 20, iv, p 300
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## Boggs Creek, Colo., at mouth.

discharge .....	<b>WS</b> 99, p 311
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## Boggy Creek, Nebr.

discharge ....	Ann 20, iv, p 298; <b>WS</b> 39, p 438
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## Boise, Idaho.

## Boise River near:

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## New York canal near:

discharge..... **WS** 85, p 216rainfall data..... **Ann** 20, iv, pp 470, 472, 474;  
22, iv, pp 31, 32, 33

## Snake River near:

discharge, monthly..... **WS** 75, p 201

## Boise River, Idaho:

## canals and ditches from:

description..... **Ann** 19, iv, pp 451-453discharge..... **WS** 38, pp 358-359;  
51, p 429; 100, pp 459-460description..... **Ann** 21, iv, p 411  
near Boise:description..... **Ann** 18, iv, pp 340-341;  
19, iv, pp 452-453; **Bull** 131, p 66;140, p 236; **WS** 16, p 168; 28, p 155;  
38, pp 356-357; 51, p 427; 66, p 128;85, pp 207-208; 100, pp 436-437  
discharge..... **Ann** 18, iv, p 342;**Bull** 140, p 236; **WS** 16, p 168;  
28, p 168; 38, p 357; 51, p 427;

66, p 128; 85, p 208; 100, p 438

discharge, monthly.... **Ann** 18, iv, p 343;

19, iv, p 454; 20, iv, pp 473, 483;

21, iv, p 411; 22, iv, p 431;

**WS** 85, p 210; 100, p 439discharge, yearly..... **Ann** 20, iv, p 62gage heights..... **Bull** 140, p 236;  
**WS** 11, p 81; 16, p 168;

28, p 161; 38, p 357; 51, p 428;

66, p 128; 85, p 209; 100, p 438

hydrographs..... **Ann** 18, iv, p 344;

19, iv, p 454; 20, iv, p 483;

21, iv, p 412; 22, iv, p 432

rainfall and run-off relation.. **Ann** 20, iv,  
p 474rating tables..... **Ann** 18, iv, p 342;19, iv, p 453; **WS** 28, p 169; 39, p 453;

52, p 522; 66, p 176; 85, p 209; 100, p 439

## near Caldwell:

description..... **Ann** 18, iv, pp 344-345;  
**Bull** 140, p 237discharge. **Ann** 18, iv, p 345; **Bull** 140, p 237discharge, monthly..... **Ann** 18, iv, p 345gage heights. **Bull** 140, p 237; **WS** 11, p 82rating table..... **Ann** 18, iv, p 345

## Boise Valley, Idaho:

miscellaneous stream measurements . **WS** 51,  
p 429seepage measurements..... **Ann** 20, iv, pp  
484-488; **WS** 66, p 129; 85,  
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## Bolan ditch in—

## Beaver Creek drainage basin, S. Dak.:

discharge..... **WS** 99, p 135

## Bonair, Va.

rainfall data..... **WS** 75, pp 45, 46, 50

## Bone Creek, Nebr.:

discharge..... **WS** 39, p 438

## near Ainsworth:

discharge..... **Ann** 20, iv, p 298

## near Long Pine, Nebr.:

discharge.. **Ann** 20, iv, p 298; **WS** 27, p 88

## Bonner, Mont.

## Blackfoot River near:

description..... **Ann** 20, iv, p 491;  
**WS** 28, pp 155-156; 38,  
p 362; 51, p 430; 66,  
p 130; 100, pp 410-411discharge..... **WS** 28, p 168;  
38, p 362; 51, p 430; 66,  
130; 85, p 216; 100, p 411discharge, monthly..... **Ann** 20, iv,  
p 491; 21, iv, p 416; 22, iv,  
p 433; 75, p 198; 100, p 413discharge, yearly..... **Ann** 20, iv, p 62gage heights..... **WS** 28, p 163;  
38, p 363; 51, p 431; 66,  
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22, iv, p 434rating tables.... **WS** 28, p 170; 39, p 454;  
52, p 522; 66, p 177; 100, p 412

## Boone Fork of Watauga River at—

## Shull's mill, N. C.:

discharge..... **WS** 49, p 215

## Boonton, N. J.

## Rockaway River near:

description..... **WS** 97, p 233discharge..... **WS** 97, p 233discharge, daily..... **WS** 97, p 235gage heights..... **WS** 97, p 234

## Bordeaux Creek, Big, Nebr. See Big Bordeaux.

## Bosque River near—

## Waco, Tex.:

description..... **WS** 66, p 59discharge..... **WS** 66, p 59

## Bound Brook, N. J.

## Raritan River near:

description..... **WS** 97, p 239discharge..... **WS** 82, p 127; 97, p 240gage heights..... **WS** 97, p 240

## Boundary Creek in—

## Hudson Bay drainage basin:

discharge..... **WS** 100, p 504

## Boulder, Colo.

## Boulder Creek at. See Boulder Creek.

## North Boulder Creek near:

hydrograph..... **Ann** 13, iii, p 87discharge, monthly..... **Ann** 13, iii, p 93

## Boulder Creek near—

## Boulder, Colo.:

description..... **Ann** 18, iv, p 171;  
**Bull** 140, pp 108-109; **WS** 15, p 92; 27,  
p 77; 37, p 231; 49, pp 287-288; 66, p 33discharge..... **Ann** 18, iv, p 171;  
**Bull** 140, p 109; **WS** 15, p 92, 27,  
p 86; 37, p 231; 49, p 288; 66, p 33discharge, monthly.... **Ann** 18, iv, p 172;

19, iv, p 319; 20, iv, pp 263, 286; 21, iv,

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**WS** 11, p 55; 15, p 92; 27, p 82;  
37, p 231; 49, p 288; 66, p 34hydrographs..... **Ann** 19, iv, p 320;

20, iv, p 287; 21, iv, p 208; 22, iv, p 324

rainfall and run-off relation.... **Ann** 20,  
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## Boulder Creek near—Continued.

## Boulder, Colo.—Continued.

- rating tables..... Ann 18, iv, p 171;  
19, iv, p 319; **WS** 27, p 89;  
39, p 448; 52, p 517; 66, p 171

## Boulder Creek in—

## Hudson Bay drainage basin:

- discharge..... **WS** 100, p 504  
seepage computations..... **WS** 50, p 304

## Bowdoin, Mont.

## Beaver Creek overflow channel near:

- description..... **WS** 99, pp 101-102  
discharge..... **WS** 99, p 102  
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## Bowlder Creek near—

## Bowlder Lake, Wyo.:

- discharge..... **WS** 100, p 127

## Bowlen Creek near—

## Burnsville, N. C.:

- discharge..... **WS** 49, p 214

## Bowling Green, Ohio:

- rainfall data..... **WS** 75, p 111

## Boxelder, Colo.

- rainfall data..... **WS** 75, pp 132, 133, 137

## Box Elder Creek:

## at Blackhawk, S. Dak.:

- description..... **WS** 99, p 49  
discharge..... **WS** 99, p 50  
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## in Missouri River basin:

- discharge..... **WS** 99, p 135

## Boysd Corners, N. Y.

- rainfall data..... Ann 20, iv, pp 82-83

## Boylston Creek in—

## French Broad River basin, N. C.:

- discharge..... **WS** 49, p 211

## Bozeman Creek near—

## Bozeman, Mont.:

- discharge..... **WS** 15, p 75; 66, p. 23

## Bozeman, Mont.

## Bozeman Creek near:

- discharge..... **WS** 15, p 75; 66, p 23

## Middle Creek near:

- description..... Ann 18, iv, p 127;

19, iv, p 271; 20, iv, pp 242-243;

Bull 140, p 88; **WS** 15, p 67; 27,

p 68; 36, pp 196-197; 49, p 261;

84, pp 43-44; 99, pp 129-130

- discharge..... Ann 18, iv, p 127;

Bull 140, p 88; **WS** 15, p 67;

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261; 84, p 44; 99, p 130

- discharge, daily..... Bull 140, p 89

- discharge, monthly..... Ann 18, iv, p 128;

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- gage heights..... **WS** 11, p 48;

27, p 70; 36, p 197; 49, p 262; 84, p 44

- hydrograph..... Ann 21, iv, p 183

- rating tables..... Ann 18, iv, p 128;

**WS** 27, p 75; 39, p 446; 52, p 516; 84, p 45

- rainfall data..... Ann 13, iii, p 40;

20, iv, pp 232, 233, 235

## Rocky Creek near:

- discharge..... **WS** 15; p 75

## Bozeman, Mont.—Continued.

## Shields River near:

- discharge..... **WS** 15, p 75

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## Platte River near:

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**WS** 15, p 98; 27, p 85; 37, p 243; 50, p

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## Columbus, Ohio.

## Lakin dam site near:

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## Olenaugy River near:

- description ..... **WS** 27, p 60; 36, p 175;  
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- description ..... **WS** 27, p 60; 36, p 176;  
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## Columbus, Tex.

## Colorado River near:

- description.. **WS** 84, p 149; 99, pp 332-333  
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## Comal River, Tex.:

- description ..... **WS** 50, pp 339-340  
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near Clements dam:  
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## Comers Creek in—

- Walker River basin:  
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## Como, Colo.

- Michigan Creek near:  
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## Como, Mont.

- Bitterroot River near:  
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- Lake Montana:  
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## Conant Creek, Idaho, below—

- mouth of Squirrel Creek:  
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## Conasauga Creek near—

- Jalapa, Tenn.:  
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## Conasauga River near—

- Alaculsy, Ga.:  
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## Resaca, Ga.:

- discharge ..... **WS** 49, p 209

## Conasauga River and tributaries:

- discharge, miscellaneous ..... **WS** 49, p 209

## Concho River, Tex.:

- description ..... **WS** 66, pp 61-62  
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## Concord ditch in—

- Spearfish Valley:  
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## Concordia, Kans.

- rainfall data ..... **Ann** 20, iv, pp 306, 310, 313

## Condit, Mich.

## South Branch Kalamazoo River near:

- discharge ..... **WS** 97, p 458

## Conejos River, Colo., near—

## Los Mogotes:

- description .... **WS** 37, pp 278-279; 50, p 348  
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## Mogote:

- description ..... **WS** 99, p 397  
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## Confluence, Pa.

## Casselman River near:

- discharge ..... **WS** 27, p 66

## Laurel Hill Creek near:

- discharge ..... **WS** 27, p 66

## Youghiogheny River near:

- discharge ..... **WS** 27, p 66

## Congaree River near—

## Columbia, S. C.:

- description ..... **WS** 36, pp 125-126

## Conifer, Colo.

## Turkey Creek near:

- discharge ..... **WS** 84, p 94

## Conneaut Creek, Pa.-Ohio:

- description ..... **Ann** 18, iv, p. 465

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## Youghiogheny River near:

- discharge ..... **WS** 27, p 66

## Connecticut River near—

## Hanover, N. H.:

- discharge ..... **Ann** 21, iv, p 63

## Hartford, Conn.:

- description ..... **Ann** 20, iv, pp 77-78;  
**WS** 35, p 42; 47, p 35; 65, p  
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- description ..... **Ann** 19, iv, p 116; 20, iv,  
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near Wetumpka, Ala.:

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- rainfall and run-off relation.. Ann 20, iv, p 181
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## near Carters:

- description..... **Ann** 18, iv, pp 96-97;  
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## Coosawattee River and tributaries, Ga.:

- discharge, miscellaneous..... **WS** 49, p 209

## Copperas Creek, Ill.

## Illinois River near:

- discharge..... **Ann** 21, iv, p 176

## Copper City, Cal.

## Squaw Creek near:

- discharge..... **WS** 66, p 167

## Copper Creek near—

## Gothic, Colo.:

- discharge..... **WS** 100, p 94

## Corbett, Wyo.

## Stinking Water River near:

- discharge..... **Ann** 13, iii, p 70

## Cordova, Ala.

## Black Warrior River near:

- description..... **WS** 48, p 171;  
 83, p 156; 98, p 161  
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 83, p 157; 98, p 162  
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## Mulberry Fork Black Warrior River near—

- description..... **WS** 65, p 283  
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## Cordova, N. Mex.

## Rio de Taos near:

- discharge..... **Ann** 11, ii, p 107

## Corlett, Wyo.

## Clear Creek near:

- discharge..... **WS** 84, p 94

## North Fork Clear Creek near:

- discharge..... **WS** 84, p 94

## Cornlea, Nebr.

- rainfall data..... **Ann** 20, iv, pp 257, 261, 265

## Cory, Colo.

## Gunnison River near:

- description..... **WS** 100, p 76  
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## Bison, Tenn.:

- discharge..... **WS** 49, p 217

## Cosby, Tenn.:

- discharge..... **WS** 49, p 217

## Costigan, Me.

## Penobscot River near:

- description..... **WS** 65, p 14  
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- discharge, low water..... **Ann** 22, iv, p 495;  
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- discharge, yearly..... **Bull** 140, pp 311, 312

## Cottonwood Creek, Cal., near—

## Olancho:

- discharge..... **WS** 100, p 225

## Cottonwood Creek, Colo., below—

## junction of Middle and South forks:

- hydrograph..... **Ann** 12, ii, p 240

## Cottonwood Creek, Colo., Middle Fork:

- discharge..... **Ann** 11, ii, p 47

## near Buena Vista, Colo.:

- discharge, monthly..... **Ann** 11, ii, p 96

## Cottonwood Creek, Colo., South Fork:

- discharge..... **Ann** 11, ii, p 47

## near Buena Vista, Colo.:

- discharge, monthly..... **Ann** 11, ii, p 97

## Cottonwood Creek, Nebr.

- discharge..... **WS** 39, p 439

## Cottonwood Creek, Nev.:

- discharge..... **WS** 100, p 226

## Cottonwood Creek, Wyo., near—

## Afton:

- discharge..... **Bull** 131, p 91

## Coulterville, Cal.

- rainfall data..... **WS** 66, pp 168, 169

## Cove Creek, N. C., in—

## Broad River basin:

- discharge..... **WS** 49, pp 205, 206

## Cove Creek, N. C., in—

## Watauga River basin:

- discharge..... **WS** 49, pp 215, 216

## Covina, Cal.

- rainfall data..... **Ann** 19, iv, pp 538, 539

## Covington, Ga.

## Alcoy River near:

- description..... **WS** 65, p 260;  
 83, p 111; 98, pp 99-100

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- gage heights..... **WS** 65, p 261;

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- rating tables..... **WS** 83, p 112; 98, p 101

- rainfall data..... **Ann** 20, iv,  
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- Cow Creek, Cal., in—  
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- Cowiche Creek, South Fork:  
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- Craig, Colo.  
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- Yampa River near:  
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## Beaver River near—Continued.

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## Crooked Arroyo near—

## Lajunta, Colo.:

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## Crooked Creek, Nebr.:

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## Crooked River at—

## Prineville, Oreg.:

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## Crooked Run in—

## Shenandoah River basin:

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## Crookston, Minn.

## Red Lake River near:

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## Mingo Junction, Ohio:

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## Croton River, N. Y.:

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## Laramie County:

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## in Mississippi River basin:

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## Story, Wyo.:

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## Grand River basin:

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## Crystal Lake outlet near—

## Iron Mountain, Mich.:

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## Crystal Run in—

## Shenandoah River basin:

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## Catfish River near:

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- description ..... Ann 20, iv, pp 235-236;  
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## Alliance, Ohio:

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## near Taponis, Idaho:

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65, p 300; 83, p 225
- rating table ..... **WS** 83, p 226

## Erwin, Tenn.:

- discharge ..... **WS** 49, p 212

## Greenville, Tenn.:

- description ..... **WS** 98, pp 285-286
- discharge ..... **WS** 98, p 286
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- gage heights ..... **WS** 98, p 286
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## Nolichucky River basin, N. C.:

- discharge, miscellaneous. **WS** 49, pp 212-214
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## Noontooty Creek, Ga. in—

## Toccoa River basin:

- discharge ..... **WS** 49, p 218

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## Chattahoochee River near:

- description ..... **WS** 98, pp 121-122
- discharge ..... **WS** 83, p 127; 98, p 122
- discharge, monthly ..... **WS** 98, p 124
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## Nurdyke, Nev.

## Walker River near:

- description ..... **Bull** 140, pp 213-214
- discharge ..... **Bull** 140, p 214
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## Norfolk, Nebr.

## Elkhorn River near:

- description ..... **WS** 15, p 99; 27, p 78;  
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- discharge ..... **WS** 15, p 99; 27, p 87; 37,  
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- discharge, monthly ..... **Ann** 19, iv, p 335;  
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## North Fork Elkhorn River near:

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## South Fork Elkhorn River near:

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## North Fork of Elkhorn River near:

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## Madison River near:

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## North Anna River, Va.:

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## Carrabasset River near:

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 82, p 33; 97, p 56  
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## Kennebec River near:

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 82, pp 28-29; 97, pp 45-46  
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 82, p 29; 97, p 46  
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## Northbend, Wash.

## Cedar River near:

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## North Boulder Creek near—

## Boulder, Colo.:

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## Santa Ana River basin:

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## Brownlee, Nebr.:

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## Ord, Nebr.:

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- description..... Ann 19, iv, p 311  
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- description..... Ann 18, iv, pp 141-142;  
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     140, p 95; **WS** 49, pp 272-273

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- description..... Ann 18, iv, pp 153-154;  
     19, iv, pp 305-306; **WS** 15, p 85; 27,  
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     Bull 131, p 91; 140, p 101; **WS** 15,  
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     21, iv, p 198; 22, iv, p 313

- discharge, yearly..... Ann 20, iv, p 54  
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     20, iv, p 269; 21, iv, p 198; 22, iv, p 314

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## near Douglas, Wyo.:

- description..... Bull 131, p 29  
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- discharge..... Bull 131, p 92  
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- description .... Ann 19, iv, p 305; **WS** 15,  
     p 84; 27, p 76; 37, p 218; 49, p 276

- discharge..... Ann 20, iv, p 302;  
     Bull 131, p 91; 140, p 101; **WS**

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     39, p 440; 49, p 276; 50, p 311

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     **WS** 27, p 88; 39 p 447

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- description..... **WS** 49, p. 275;  
     66, p 27; 84, pp 68-69; 99, pp 165-166

- discharge..... **WS** 49, p 275;  
     66, p 27; 84, p 69; 99, p 166

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     **WS** 75, p 125; 84, p 70; 99, p 167

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     66, p 27; 84, p 69; 99, p 166

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     66, p 171; 84, p 70; 99, p 167

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- discharge.. Ann 20, iv, p 302; **WS** 39, p 440

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     84, p 67; 99, p 163

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     84, p 68; 99, p 165

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- description..... Ann 18, iv, pp 156-157;  
     19, iv, p 306; Bull 131, p 30; 140,  
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     76; 37, pp 220-221; 49, p 277; 66,  
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     iv, p 157; 20, iv, pp 301, 302;

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     15, p 86; 27, p 86; 37, p 221; 49, p  
     277; 66, p 28; 84, p 62; 99, p 158

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     19, iv, p 310; 20, iv, pp 263,

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     Bull 140, p 101; **WS** 27, p 88;

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- description..... Ann 18, iv, pp 150-151;  
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- discharge ..... **Ann** 18, iv, p 152;  
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- description ..... **WS** 99, p 174  
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- description ..... **Ann** 19, iv, pp 304-306;  
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- irrigation in ..... **Ann** 19, iv, pp 772-774

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- description ..... **Ann** 21, iv, p 106  
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- description..... **Ann** 18, iv, p 36;  
**Bull** 140, pp 61-62; **WS** 15, p 23;  
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 19, iv, p 170; **Bull** 140, p 62; **WS**  
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## mouth of South River, Va.:

- discharge..... **Ann** 19, iv, p 173

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- description..... **Ann** 18, iv, p 25;  
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## South River dam:

- discharge..... **Ann** 19, iv, p 171

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## North River and tributaries, Va.:

- discharge..... **Ann** 19, iv, p 171

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## Middle Yuba River near:

- description..... **WS** 51, p 452  
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## North Yuba River near:

- description..... **WS** 51, p 451  
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## North Toe River, N. C.:

- discharge..... **WS** 49, p 212

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## Mulberry Creek near:

- discharge..... **WS** 98, p 38

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- description..... **WS** 98, p 35  
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## Moxee Valley near, artesian wells in:

- discharge..... **WS** 75, pp 204-205

## Naches River near:

- description..... **Ann** 14, ii, p 133; 18, iv,  
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## North Yuba River near—

## North San Juan, Cal.:

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## Norton, Kans.

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## Norwood, N. C.

## Yadkin (Pedee) River near:

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## Choestoe, Ga.:

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## Orono Island, Me.

## East and West branches of Stillwater

## River near:

- discharge..... **Ann** 19, iv, pp 56-57

## Oroville, Cal.

## Feather River near:

- description ..... **WS** 85, p 133; 100, p 272  
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## Salmon River near:

- description..... **WS** 36, pp 190-191

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## Ottawa, Kans.:

- description ..... **WS** 99, p 41  
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## Osborn, Ga.

## Hightower Creek near:

- discharge..... **WS** 49, p 217

## Osceola, Va.

## Middle Fork of Holston River near:

- discharge..... **WS** 27, p 66

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## Fox River near:

- description ..... **WS** 83, p 298  
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## Oswegatchie River, N. Y.

- description ..... **WS** 65, pp 33-35

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## Fox River near:

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## Marais des Cygnes River near:

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## Ottawa River, Quebec, near Carillon:

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## Otter Creek, Va., in—

## James River basin:

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## Camden, Ark.:

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   description ..... **WS** 100, p 222  
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     discharge..... **WS** 49, p 209  
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     description..... **Ann** 18, iv, p 346;  
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       **Bull** 140, p 242  
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   near Owyhee, Oreg.:  
     description ..... **Bull** 131, pp 66-67;  
       **WS** 100, pp 445-446  
     discharge ..... **WS** 100, p 446  
     discharge, flood..... **Ann** 11, ii, p 86  
     gage heights..... **Bull** 131, p 67;  
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   near Rigsby, Oreg.:  
     description..... **Ann** 14, ii, pp 130-131  
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   Mississippi River at:  
     discharge..... **Ann** 22, iv, p 219  
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   Connecticut River near:  
     description ..... **WS** 47, p 34;  
       65, p 29; 82, p 46; 97, p 81  
     discharge.. **WS** 65, p 29; 82, p 47; 97, p 81  
     discharge, monthly..... **WS** 75, p 23;  
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     gage heights ..... **WS** 47, p 34;  
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   Republican River near:  
     discharge ..... **Ann** 18, iv, p 206;  
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   near mouth:  
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   discharge..... **Ann** 18, iv, pp 693-695  
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   discharge .. **WS** 28, p 192; 66, p 167; 100, p 347  
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   San Luis Rey River near:  
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     description ..... **Ann** 18, iv, pp 197-198;  
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     discharge, monthly ..... **Bull** 140, p 135  
     gage heights..... **Bull** 140, pp 134-135;  
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## Pine Creek near:

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## Palisades, Colo.

## Grand River near:

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## Cienega, Cal.:

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## Palmdale, Cal.

## Bigrock Creek near:

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## Payette River near—

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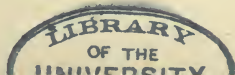
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## Pecos River near:

- discharge..... **WS** 28, p 130

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## Bighorn River basin:

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- discharge..... **WS** 49, p 204

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- rainfall data..... **WS** 52, pp 495, 496;  
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## Ironton, Colo.:

- discharge..... **WS** 100, p 64

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## Molina, Ga.:

- discharge..... Ann 19, iv, p 240

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## Garland:

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- description..... **WS** 99, p 319
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- description..... **WS** 84, p 139; 99, p 313

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- description..... **WS** 66, p 9

## near Emerson, Manitoba:

- description... **WS** 66, p 13; 85, pp 233-234
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## Red Rock Creek, Mont.

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- description..... **WS** 99, pp 220-221  
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- discharge..... **Ann** 18, iv, p 206;  
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## Spearfish Valley:

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## Almont:

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## Cathedral:

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## Gunnison:

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## Montrose:

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## Spring Creek, Idaho, in—

## Interior drainage basin:

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## Spring Creek, Nebr.:

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## Carson River basin:

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## Hot Springs:

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## Spring Creek, S. Dak.

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## in Hiwassee River basin:

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## Spring Creek, Va., in—

## South Fork Holston River basin:

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## Springdale, Mont.

## Yellowstone River near:

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## Perkiomen Creek near:

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## Springs Valley watershed, Cal.

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## Spring Creek near:

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## Sprouts Run in—

## James River basin:

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## Beaver Creek near:

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## Stone Mountain, Ga.

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1894. Bulletin No. 131; Sixteenth Annual Report, Part II.
1895. Bulletin No. 140.
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1897. Water-Supply Papers Nos. 15 and 16; Nineteenth Annual Report, Part IV.
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1899. Water-Supply Papers Nos. 35, 36, 37, 38, and 39; Twenty-first Annual Report, Part IV.
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1901. East of Mississippi River, Water-Supply Papers Nos. 65 and 75.  
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